QUESTION ITU-R 133-2/6

Enhancements of digital terrestrial television broadcasting

(2010-2013-2019)

The ITU Radiocommunication Assembly,

considering

*a)* that terrestrial television broadcasting undergoes the transition from analogue to digital emission;

*b)* that digital emission can provide opportunities for enhancements of broadcasting, including:

– HDTV, UHDTV;

– 3DTV, and Advanced Immersive Audio-Visual Systems;

– broadcasting for portable, mobile and fixed reception;

– high bit-rate data broadcasting;

– medium and low bit-rate data broadcasting for tele information applications;

– multimedia broadcasting;

– interactive broadcasting;

*c)* that there is considerable interest in maximizing the efficiency of the digital terrestrial television broadcasting;

*d)* that there is considerable progress in development of compression techniques for digital television;

*e)* that future integrated/hybrid systems may allow complementary terrestrial broadcasting with other methods of broadcast content delivery,

decides that the following Questions should be studied

1 What are the anticipated future developments in terrestrial television broadcasting technology including modulation and emission methods and channel coding and error correction methods?

2 What are the future requirements for digital terrestrial television broadcasting technologies?

3What efficiencies will be achieved by the enhancements of broadcasting?

4What are the technologies or applications that could be provided by digital terrestrial broadcasting systems and what sets of system parameters could be used for different applications?

5 What technical criteria can be optimized to facilitate the implementation of enhanced terrestrial digital broadcasting, taking into account existing services?

6 What are the appropriate strategies to introduce and implement digital terrestrial broadcast services, taking account of existing terrestrial broadcast services?

7 What are the technical and operational factors affecting the choice of scenarios for introducing enhanced digital television broadcasting?

8 What strategies should be employed by administrations, particularly those sharing common borders, for migration from an established digital terrestrial television broadcasting service to a more advanced digital terrestrial television broadcasting service?

9 What possibilities may the broadcast content delivery in future integrated/hybrid systems offer, in addition to terrestrial broadcasting?[[1]](#footnote-1)1

further decides

1 that the results of the above studies should be included in (a) Report(s) and/or Recommendation(s);

2 the above studies should be completed by 2027.

Category: S3

1. 1 This Question should be brought to the attention of ITU-R Study Group 5 and ITU-T Study Group 9. [↑](#footnote-ref-1)